CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/BBU/W.No.01/CSR-11/486d/CEMENT/2017-18

Date: 10.11.201

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. B. B. Umesh.** No 345/1, Anjaneya temple Bettahalasoor, Bangalore.
*** Name of Work**	:	Improvements and asphalting to roads at venakatala service road and surrounding areas in Ward No.01 of Yelahanka Sub Division. BBMP, Bangalore.
*** Reference**	:	EE/YNK.D/EPMT-8/W.O/82 /2017-18 Dated: 23.06.2017
*** Sample ID**	:	Cement
Sample Received on	:	08.11.2017
Period of Testing	:	08.11.2017 to 10.11.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/BBU/W.No.01/CSR-11/486d/SAND-Gradation/2017-18 10.11.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B. B. Umesh.** No 345/1, Anjaneya temple Bettahalasoor, Bangalore.
* Name of Work	:	Improvements and asphalting to roads at venakatala service road and surrounding areas in Ward No.01 of Yelahanka Sub Division. BBMP, Bangalore.
* Reference	:	EE/YNK.D/EPMT-8/W.O/82 /2017-18 Dated: 23.06.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	08.11.2017
Date of Testing	:	10.11.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.90	90-100	90-100	90-100	95-100
2.36	72.40	60-95	75-100	85-100	95-100
1.18	47.60	30-70	55-90	75-100	90-100
600 Micron	25.00	15-34	35-59	60-79	80-100
300 Micron	13.30	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.:CTCE/BBMP/BBU/W.No.01/BM/Bitumen/2017-18

21.12.2017

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS MACADAM MIX

As per IS2386 and IRC:SP:11-1984

*CUSTOMER	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	**Mr. B. B. Umesh.** No 345/1, Anjaneya temple Bettahalasoor, Bangalore.
*NAME OF THE WORK	Improvements and asphalting to roads at venakatala service road and surrounding areas in Ward No.01 of Yelahanka Sub Division. BBMP, Bangalore.
*REFERENCE	EE/YNK.D/EPMT-8/W.O/82 /2017-18 Dated: 23.06.2017
SAMPLE I/D	roads at venakatala service road in Ward No.01
DATE OF TESTING	21.12.2017

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	477	477.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	23	22.50
7. Bitumen content in %	4.60	4.50
8. Average	**4.55**	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
26.5	0	0	0	100	100
19	25.18	5.28	5.28	94.72	90-100
13.2	150.6	31.57	36.85	63.15	56-88
4.75	172.4	36.14	72.99	27.01	16-36
2.36	42.55	8.92	81.91	18.09	4-19
0.3	42.5	8.91	90.82	9.18	2-10
0.075	10.5	2.20	93.03	6.97	0-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
26.5	0	0	0	100	100
19	26.5	5.30	5.30	94.70	90-100
13.2	157.2	31.44	36.74	63.26	56-88
4.75	176.2	35.24	71.98	28.02	16-36
2.36	84.2	16.84	88.82	11.18	4-19
0.3	30.5	6.10	94.92	5.08	2-10
0.075	11.5	2.30	97.22	2.78	0-8

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